

**"THE PROBLEMS OF NUMERICAL PREDICTION CAN BE  
CONSIDERED TO BE THE PROBLEMS OF ALL  
METEOROLOGY"**

**MARCH 1958 - DR. GEORGE P. CRESSMAN - FIRST DIRECTOR JNWPU**

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**General Information: [wwwt.ncep.noaa.gov/JNWPU50](http://wwwt.ncep.noaa.gov/JNWPU50)**

**Registration: [www.ametsoc.org](http://www.ametsoc.org) then "Meetings and Exhibits"  
and "Online Conference and Short Course Registration"**

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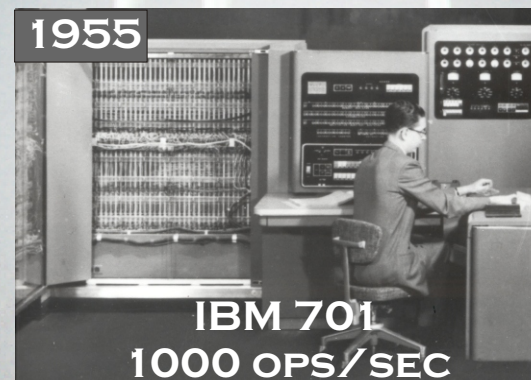
# **SYMPOSIUM ON THE 50<sup>TH</sup> ANNIVERSARY OF OPERATIONAL NUMERICAL WEATHER PREDICTION**

**JUNE 14 - 17, 2004**

**UNIVERSITY OF MARYLAND**

**COLLEGE PARK, MARYLAND**

**UNIVERSITY COLLEGE INN AND CONFERENCE CENTER**



## **CELEBRATING THE CREATION OF THE JOINT NUMERICAL WEATHER PREDICTION UNIT**

**PRESENTED BY:**

**AIR FORCE WEATHER AGENCY**

**FLEET NUMERICAL METEOROLOGY**

**AND OCEANOGRAPHY CENTER**

**NATIONAL CENTERS FOR ENVIRONMENTAL  
PREDICTION**



## BIRTH OF JNWPU JULY 1954

### 50 YEARS APPLYING THE BENEFITS OF NEW SCIENCE AND TECHNOLOGY TO MAKE FORECASTING BETTER

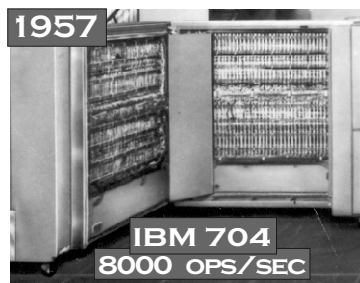
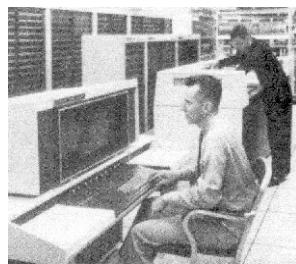


Join us June 14 - 17, 2004 for an important historical 50th Anniversary Symposium celebrating a half-century of operational numerical weather prediction ushered in by the formation of the Joint Numerical Weather Prediction Unit in mid-1954.

The symposium will take place in the elegant Georgian-styled University of Maryland Inn and Conference Center on the campus of the University of Maryland conveniently located near Washington D.C. The event is an opportunity to learn about the formation of JNWPU by elements of the U.S. Air Force, Navy and Weather Bureau and the notable pioneering exploit of computer technology and science which paved the way for the remarkable improvements in operational weather forecast skill over the years in support of the nation's well-being and national defense.

The symposium will highlight a historical overview of the formation and early days of JNWPU operation, and will feature many distinguished speakers to discuss how numerical models, data assimilation and operational forecast methods have evolved. This milestone event promises a memorable look back at operational NWP as well as a glimpse ahead of its future.

### NWP - ONE OF THE MAJOR INTELLECTUAL ACHIEVEMENTS OF THE TWENTIETH CENTURY



## SYMPOSIUM AGENDA

Registration for the 50th Anniversary of JNWPU includes full buffet lunch each day, refreshment breaks all day, an ice breaker reception Monday and Tuesday evening, free parking, a great location and interesting speakers.

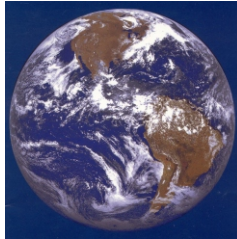
### Monday, June 14, 2004

5:00 - 8:00 p.m. Registration and Ice Breaker

5:30 - 7:30 p.m. Historical Overview of Operational NWP

Moderator: Jim Fleming

President International Commission on History of Meteorology



### Tuesday, June 15, 2004

8:00 a.m. Opening Comments

Dr. Louis Uccellini, NCEP Director

Colonel Charles Benson, AFWA Commander

Captain Christopher Gunderson, FNMOC Commanding Officer

8:30 a.m. Session 1: Historical Round Table Discussion

Session Chair: Ronald McPherson, AMS

10:45 a.m. Session 2: Evolution of Supercomputers and Forecast Models

Session Chair: Bob Plante, Raytheon

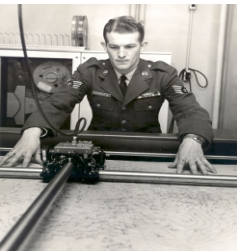
1:30 p.m. Session 3: Evolution of Supercomputers and Forecast Models (cont.)

Session Chair: Mike Clancy, FNMOC

4:00 p.m. Session 4: From Model Predictions to Forecasters: Then and Now

Session Chair: Carlyle H. Wash, NPS

6:00 p.m. Evening Ice Breaker



### Wednesday, June 16, 2004

8:30 a.m. Session 5: From Model Predictions to Forecasters: Then and Now (cont.)

Session Chair: Bill Bonner, NMC/NCEP, ret.

10:30 a.m. Session 6: Evolution of Data Assimilation

Session Chair: Eugenia Kalnay, University of Maryland

2:00 p.m. Session 7: Evolution of Ensembles

Session Chair: Steve Tracton, NRL

7:00 p.m. Dinner: Keynote Speaker Norm Phillips "The Start of NWP"

### Thursday, June 17, 2004

8:30 a.m. Session 8: Long-range Forecasting

Session Chair: Carl Thormeyer, FNMOC

12:30 p.m. Luncheon with speaker

2:00 p.m. Session 9: The Future of NWP

Session Chair: Louis Uccellini, NCEP